



Australian Bureau of Statistics

CensusAtSchool Australia

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Resources



CaSQ 12A - Pie Graph of Eye Colour Using Paper Folding

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

How to: Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool Random Sampler to download a sample.

Reference year: *(select year)* **Sample size:** *96 students*

Select questions: *Eye colour*

Location: *Select location* **Year level:** *(select a range of year levels)*

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% of the respondents for the parameters entered.

Task:

In the CensusAtSchool random sample find the data for eye colour.

1. Record each colour and frequency of students in a table like the one below.

Eye Colour	Tally	Frequency	Fraction	Closest common fraction (see below)
Brown				

Green				
Hazel				
Blue				
Grey				
Other				

2. There are 96 students in your sample. From a total of 96, what number is represented by these common fractions?

- a) one half of 96 b) one fourth of 96 c) one eighth of 96
d) one fifth of 96 e) one tenth of 96 f) one third of 96

3. In the fifth column in the table write the common fraction that each of your eye colours is closest to. For example, if you had 47 brown-eyed students in your sample this is very close to, but a little less than, one half of the students. You could write “nearly $\frac{1}{2}$ ”

4. Ask your teacher for a coloured circle of paper. Using paper folding techniques, make folds in your circle to help you to show the fraction for each of the eye colours you found in your sample. Label each sector with its eye colour.

Note: 12B follows on from this lesson.

Download the Activity:

RTF

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